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CE

Rev 1.1

StressX User Manual

Thank you for your purchase of the iCOMBAT system. This highly realistic law enforcement training tool has been developed to meet the needs of training programs world wide. The system is very dependable and can be used for a variety of exercises suiting the user. The StressX shocking belt is designed to create elevated levels of stress during training or gameplay. It delivers a shock or vibration when the user is shot by the iCOMBAT system. The belt has a variety of options to suit role-players, simulate wounds, and increase heart rates. The StressX works by syncing to the irVest.

Safety

⚠ SYSTEM WARNING AND CAUTION

The StressX is designed to be very realistic in order to meet the needs of law enforcement training programs and entertainment facilities. Training with the StressX and iCOMBAT system must never occur in areas where real firearms and other hazardous equipment are being used. Serious injury or even death may occur. Prior to using the StressX, please ensure that it visibly appears to be in good shape. If something seems loose or odd, contact iCOMBAT.

The developers at iCOMBAT have taken great care in designing a product that can be used safely. The irM4 is unable to fire a projectile and cannot be made to fire a projectile in any way. Instead, an infrared laser is emitted to ‘simulate’ a projectile. This beam of infrared light is completely invisible and eye safe. The irM4 is designed to emit this infrared light at safe levels that do not constitute a health hazard. However, as with any light source, we recommend that the user take precautions to avoid any unnecessary exposure such as intentionally aiming the irM4 at someone’s eyes or staring down the barrel at close range for extended periods of time.

Always pay attention to the training organizer and safety briefings when instructed. Be aware of any signs or special hazards in area. iCOMBAT doesn’t provide any training.

Never modify your StressX or iCOMBAT gear in any way at any time for any reason. Repairing the StressX or replacing parts may only be done by a certified iCOMBAT technician or with their permission. Disassembly of the StressX might damage sensitive electronics or internal components and immediately voids the factory warranty.

HIGH VOLTAGE
WARNING
DEVICE DESIGNED TO DELIVER ELECTRIC SHOCK.
CONTACT MAY CAUSE SHOCK OR BURN.
DO NOT TOUCH UNLESS TRAINED TO HANDLE SAFELY.
ELECTRIC SHOCK RISK

StressX User Manual

⚠ WARNING: MUST READ!

ALL PURCHASERS AND USERS OF STRESSX ELECTRICAL DISCHARGE DEVICES MUST READ AND AGREE WITH THE FOLLOWING CONDITIONS PRIOR TO USING ANY STRESSX DEVICE. IF YOU DO NOT AGREE WITH THE FOLLOWING, DO NOT USE THE PRODUCT IN ANY WAY.

It is the responsibility of the purchaser of the StressX product to ensure that any individual wishing to use said products must first read and agree to the conditions stated in this document. Any instructor using StressX as a tool to train other individuals must ensure ALL students read and understand the warnings and risks associated with StressX.

1. Although StressX™ electrical shocking devices are not designed to cause serious injury or incapacitation, the fact that they emit an electrical shock means they do carry risk. It is impossible to predict how each individual will react to the device. While medical evidence supports the use of high voltage, low amperage devices as being safe, those choosing to train with StressX™ products accept risk of injury or even possible death from unforeseen individual susceptibilities.

2. StressX™ devices can cause muscle contractions or reflex reactions which may result in injuries to bones, muscles, tendons, ligaments and joints.

3. StressX™ devices cause both physical and psychological pain which can be stressful and may cause psychological injury in some people.

4. Repeated exposure with the StressX™ device in the same location may cause redness, marks, burning and in extreme cases, scarring that may be permanent.

5. Sparks from StressX™ devices can ignite flammable liquid or gas. Do not use the StressX™ around any flammable material. Ensure any inert or chemical spray products being used in conjunction with training are not flammable and can not be ignited by spark. This includes flammable gas products used to charge airsoft weapons.

6. The StressX™ electrical charge should NEVER be applied to the groin, spine, upper torso, legs, face or neck area. NEVER touch the electrodes with the hands or fingers.

7. No minor, youths, or anyone under the age of 18 years should be allowed to use or be exposed to any StressX™ devices.

8. If you have a condition or pre-existing injury that you believe may be aggravated by StressX™, advise your instructor immediately and do not participate in activities using StressX™.

9. Read all directions and associated cautions for any laser systems used in conjunction with the StressX™ system.

10. NEVER touch the electrodes located on the StressX with your hands or fingers. Touching electrodes with different extremities can create a large pathway for an electrical charge to travel through the body and may put certain individuals at risk of bodily harm or even death.

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⚠ LIABILITY RELEASE / AGREEMENT NOT TO SUE!

In consideration of using the StressX™ device during training and/or exposure, I acknowledge and agree to the following:

1. I have read the above stated Warnings, Cautions and Risks Associated with StressX™ products. I understand and acknowledge that my participation in any training or recreational activity utilizing a StressX™ device or any exposure to a StressX™ device is by volunteer only. I chose to voluntarily use the StressX™ device, understanding that I assume all risks of bodily injury whether physical or psychological that may occur.

2. I acknowledge and intend this form to be legally binding upon me, my heirs, executors, employers or any other party of interest and I am acknowledging that I waive, release any instructor, monitor, agency, business, associated with StressX™ device training including Predator Games, iCOMBAT, StressX™ Inc. and all of their sales agents, distributors, directors, owners and employees from any claims, demands, suits, rights and cause of action of any kind and nature, arising from and by reason of StressX™ device training or exposure that results in any physical or psychological injury, including death.

3. I understand that by agreeing to this form I have read the entire form and have chosen to use the StressX™ device; I understand that by reading this form I am releasing any instructor, monitor, agency, business, associated with StressX™ device training including Predator Games, iCOMBAT, StressVest™ Inc. and all of their sales agents, distributors, directors, owners and employees from any and all legal and civil action or claims; I understand that by reading this form I am agreeing and promising not to sue: I also understand that by agreeing with this form, I am giving up certain legal rights including the right to recover damages in case of injury; I agree that I have read and understand this entire Form; I understand that it is a promise not to sue and a release and indemnity for all claims; I further understand that by agreeing to this Form I am giving up certain legal rights including the right to recover damages in case of injury; and I agree to accept all the stated conditions and terms of this form.

IF YOU DO NOT AGREE TO THE ABOVE CONDITIONS, PLEASE RETURN THE UNUSED STRESSX™ PRODUCT FOR A FULL REFUND. IF THE STRESSX™ PRODUCT IS NOT RETURNED UNUSED, THEN IT IS ASSUMED THAT THE PURCHASER HAS UNDERSTOOD AND AGREED WITH THE CONDITIONS OF THIS FORM. PURCHASERS ARE ENCOURAGED TO HAVE THIS FORM REVIEWED BY AN ATTORNEY OF THEIR CHOSING BEFORE AGREEING TO THE FORM.

General Warnings

1. Read this manual in its entirety before using the StressX™.
2. The StressX™ should be cleaned only as recommended by the manufacturer and in accordance with the water and moisture warnings stated in this manual.
3. Do NOT submerse the StressX™ in water.
4. Do NOT attempt to service the StressX™ other than regular maintenance stated in this manual. All servicing should be referred to StressVest™ Inc or iCOMBAT.
5. Certain electronics that are part of the StressX™ system are designed to be permanently sealed inside for the life of the product. Do NOT open or attempt to open any electrical components of the StressX™. Doing so is dangerous and will void the warranty.
6. The StressX™ is designed to be used at room temperatures between (40ºF to 85ºF). Do NOT use in extreme high or extreme low temperatures.
7. Do NOT store near flammable material.
8. NEVER touch the electrodes of the StressX with the hands or fingers.

StressX User Manual

Liability Statement

This product is surrendered by iCOMBAT with the understanding that the purchaser and or user assumes all liability resulting from unsafe handling or any action that constitutes a violation of any applicable laws or regulations. iCOMBAT shall not be liable for personal injury, loss of property or life resulting from the use of this product under any circumstances. All information contained in this manual is subject to change without notice. iCOMBAT reserves the right to make changes and improvements to products and manuals without incurring any obligation to incorporate such improvements in products previously sold.

Warranty

iCOMBAT warrants that this product is found free from defects in materials and workmanship for a period of one year from the original date of purchase by the initial owner/purchaser. This warranty does not apply to a) defects discovered after purchase which were caused by the unauthorized modifications, alterations or misuse of the purchased product; b) consumable parts such as batteries, o-rings, or other components designed to diminish or may wear out over time; c) cosmetic damage, including but not limited to, scratches, dents, rips, tears, or broken plastics and metals; d) damage caused by accident, abuse, misuse, liquid contact, fire, flood, or other external cause; e) damage occuring from operating product outside of iCOMBAT's published guidelines found in this manual or otherwise; f) damage caused by service such as upgrades and expansions performed by anyone who is not a representative of iCOMBAT; g) iCOMBAT products that have been functionally or capability modified without written permission from iCOMBAT; h) defects caused by normal wear and tear or otherwise due to normal aging of the iCOMBAT product; i) an iCOMBAT product in which the serial number has been removed or defaced, or is otherwise illegible. Determining a product's warranty status is solely the responsibility of iCOMBAT. iCOMBAT will repair or replace, without charge, any of its products that have failed through defect in material or workmanship.

IMPORTANT: Do not open or otherwise disassemble your iCOMBAT product without express written permission from an authorized iCOMBAT representative. Opening or disassembling the product may cause damage that is not covered under warranty.

EXCEPT AS EXPRESSLY STATED HERIN, THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, BY OPERATION OF LAW OR OTHERWISE, OF THE PRODUCTS OR SERVICES FURNISHED BY ICOMBAT. ICOMBAT SPECIFICALLY DISCLAIMS AND EXCLUDES ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ARISING FROM A COURSE OF DEALING OR USAGE OF TRADE. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. ICOMBAT SHALL NOT BE LIABLE FOR, NOR DOES ICOMBAT AUTHORIZE ANY PERSON TO ASSUME FOR ICOMBAT, ANY LIABILITY IN CONNECTION WITH THE PRODUCTS OR SERVICES FURNISHED BY ICOMBAT INCLUDING, WITHOUT LIMITING THE GENERALITY OF THE FOREGOING, LIABILITY FOR LOSS OF PRODUCTION, PRODUCT, EQUIPMENT OR PROFITS OR LIABILITY FOR DIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES TO PERSONS OR PROPERTY. PURCHASER AGREES THAT PURCHASER'S SOLE REMEDY FOR LIABILITY OF ANY KIND, INCLUDING NEGLIGENCE WITH RESPECT TO THE PRODUCTS AND SERVICES FURNISHED BY ICOMBAT SHALL BE LIMITED TO THE REMEDIES PROVIDED IN THIS LIMITED WARRANTY.

Service

If you begin to notice odd performance with any of your iCOMBAT gear, please contact iCOMBAT Customer Service at 888-950-1221 right away. You may also email iCOMBAT Service at support@iCOMBAT.com.

All iCOMBAT products are covered under a 1 year limited warranty from the time of purchase. If your iCOMBAT product must be serviced, contact iCOMBAT Customer Service at support@iCOMBAT.com to receive return instructions. If your product is found to be outside of warranty, iCOMBAT will contact you with any charges before proceeding to repair your product. You are responsible for all shipping charges to and from iCOMBAT for both warranty and non-warranty repairs. In most cases, iCOMBAT can simply send you the parts you require for repair if a technician has approved.

AS STATED ABOVE, YOU ARE RESPONSIBLE FOR ALL SHIPPING CHARGES TO AND FROM ICOMBAT FOR ANY/ALL SERVICES BOTH UNDER WARRANTY AND NOT UNDER WARRANTY.

StressX User Manual

The StressX

Take a few minutes and orientate yourself with the StressX. Become familiar with the design and layout of the device. Adjust the belt so that it fits around your waist properly.

1. Glass-filled nylon enclosure
2. Few buttons for simplicity
3. Strong nylon adjustable belt
4. LED display
5. IR Window for seamless syncing
6. USB charging
7. Six shocking electrodes (on back)

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Battery Power

The StressX is sold with a minimal but uncertain charge in the lithium ion rechargeable batteries. It may require charging before use. Connect the supplied USB charger on the StressX and plug it into a standard wall outlet. A completely dead battery will take approximately 7 hours to fully charge. The red Power LED will blink if the batteries are low (when not being charged) and also blink while charging. Charging is complete when the Power LED is solid. *Take care to gently insert and remove charging cable to prevent damage.*

Preparation

Adjust the belt so that it sits snuggly around your belly. The StressX unit should sit firmly against your belly and not be hanging loose. It can be worn over one thin layer of clothing such as a t-shirt. Be sure the unit and electrodes are clean before operation.

Press the power button to turn on the StressX belt. Press and hold the power button to turn off.

⚠ WARNING

Never touch the shocking electrodes with your hands!
Never place the shocking electrodes anywhere except your stomach area!

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Stimulus Setup

Before the StressX can be used, the stimulus must be set and the level required by the training to be set. There are 4 levels of shock power, plus a vibration setting. Press the Select button to move to the Shock (ϟ) Level and use the arrow keys to select the desired shock level. If the level selected is 0, then vibration mode is in effect. The shock will only function if the Shock button is illuminated. Press the Shock button to toggle the shocking on and off.

0 - No shock (Vibrate only)
1 - Low shock ~30ms
2 - Medium shock ~40ms
3 - High shock ~60ms
4 - Maximum shock ~80ms

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Using the StressX

Syncing

When using the StressX for training, you must first sync the StressX to the irVest. To do this, ensure both your StressX and irVest are powered on. Then press the Helmet button on the irVest so that it begins blinking. Take the StressX and press the Sync button so that it begins blinking and hold up the IR Window (red square) to any sensor on the irVest. If done properly, within 30 seconds, the blinking buttons will turn solid and you will hear a confirmation beep from the irVest.

Lockdown Mode

The StressX can be locked out to prevent tampering. The belt is automatically locked out when connected to the iCE software. If using the StressX in gun2gun mode without iCE, simply press and hold the Select button until LO is displayed on screen. To unlock, press and hold down Select again until LO flashes once more. Powering the unit off and on again also clears the lockout.

Resetting the StressX Sync

From time to time, you may wish to sync your StressX to another irVest. In order to do this, the StressX electronics must be reset to clear out the sync data. To reset the StressX electronics, press and hold the Sync button for a few seconds. The Sync LED will eventually turn off. Do the same with the Helmet button on the irVest that the StressX was synced to.

Status Lights, LED Display, and Programming

The red LED display shows the status of the StressX. When training is underway, the Hits mode should be illuminated and the number on the display shows the amount of Hits the trainee has received. The number showing shown when cycling through Shock (ϟ) Level relates to the current setting, as seen in Stimulus Setup.

Status Lights

Power Button
- Blinking - low battery, unit charging if plugged into charger and wall
- Solid - unit is on

Sync Button

Blinking - attempting to sync
Solid - synced to an irVest
Off - no devices synced

Shock Button
Solid - shock on
Off - shock off, vibrate enabled

LED Display

Number - value of hits or shock level depending on what is selected
bL - bootloader enabled (certified tech only)
A - belt is synced to 3rd party adapter (always displayed on left)
H - belt is synced to irVest or tablet/Host (always displayed on right)

Maintenance
Make sure that the StressX belt is turned completely off before attempting to clean. Use a damp rag or paper towel to wipe down and clean the StressX. Do not use solvents or other chemicals as this may corrode parts and damage the finish. Please also recharge the unit at least once per month to prevent a dead and unresponsive battery.

Performance Specifications

RF Range
The StressX has a short range radio that is used to sync the belt to an irVest. This radio has a limited range, so it should not affect those around the trainee. It will only deliver a stimulus if within range of the irVest it is synced to. When worn correctly, you should have no issues.

Battery Life
The StressX features rechargeable lithium ion batteries. Fully charged batteries will provide about 36 hours of stand-by time or approximately 8 hours of moderate use. Charging is done by plugging in the supplied 5 volt 1 amp charger into an AC outlet and connecting it to the USB port on the StressX. *Take care to gently insert and remove the charging cable to prevent damage.*

Environmental Conditions
The StressX design and durability allow it to be used in a variety of environments without issue. The StressX is designed to be used in temperatures ranging from 40-85 degrees Fahrenheit (4-29 degrees Celsius). The electronics are all coated to provide moisture resistance. Damp or dry playing areas will not affect the StressX. Using the StressX in light rain is fine. Be sure to let the StressX completely dry out before storing away or using again.

Using Polar Heartrate Monitor
Attach transmitter and elastic strap to each other. These parts are supplied together. Adjust the strap length so the monitor fits snugly and comfortably around your chest. It should sit just below your chest muscles near the heart. Moisten the two electrode areas on the back of the monitor and place it firmly against your skin so that the Polar logo is in the central, upright position. Ensure the belt cannot shift during use. The monitor will automatically sync with your StressX belt and provide live feedback to the computer software (CCM).